

ENGINEERING CHECKS ARS 50 CLASS

AUXILIARIES (AX) PRE-UNDERWAY PHASE

5811	ANCHOR	WINDLASS (Inport	Drop Test)
Component/Sub-Cor		Proposed	Accepted
-		Procedure	Procedure
Inspect Tech Manual Support			
Inspect PMS Support			
Inspect posted operating/safet	y instructions		
and lubrication data			
Inspect fluid samples			
Inspect for proper HPU fluid	levels		
Inspect for proper lubrication	of mechanical		
components			
Inspect Gauge Calibration			
Inspect relief valve data is pro	perly posted		
Inspect all flex hoses are prop	erly tested and		
labeled			
Inspect mechanical brake oper	rator linkages		
Inspect stroke control linkage	S		
Inspect flange shields			
Inspect for adequate nitrogen	charge for		
windlass			
Inspect speed limiter			
Inspect for adequate LP air pr	essure for chain		
compressor			
Inspect capstan/wildcat brake			
mechanical brake components	(worm gear end		
cap as required).			
Inspect electric brake			
Inspect filter differential indic			
Inspect HPU mechanical seal			
Test Compensating Relief Valve is properly			
set			
Test - Conduct Inport Anchor Drop test			
- Inspect Servo/Replenishmen	t Pressures		
during wildcat operation			
- Inspect Chain Compressor o			
- Inspect Anchor drops from t			
- Test electric brake operation			

- Inspect reduction gear lubrication (gauges/sight flows/dipsticks)	
Test crossover valve operation	
Test wildcat/windlass solenoid switch	
Test Main Relief Valve lifts correctly	

5600 / 5611	STEERING (In	port System Ver	ification)
Component/Sub-Co		Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS	S Support		
Inspect PMS Support			
Inspect operating/safety instruc	tions and hydraulic		
system/electrical wiring diagram	ns are posted		
Inspect proper fluid levels			
Inspect hydraulic oil fill connec	ctions are properly		
labeled			
Inspect fluid samples			
Inspect Gauge Calibration			
Inspect rudder stock grounding	straps		
Inspect filter indicators			
Inspect Servo/Replenishment P	ressures are correct		
Inspect all flex hoses are proper	rly tested/labeled		
Inspect flange shields are prope	rly installed		
Test N2 accumulators are properly charged			
Test the trick wheel stops			
Inspect the crush block clearand	ces		
Test the rudder follow up error	(1 deg increments at		
0 to 5 deg; 5 deg increments at	5 to 25 deg)		
Test ABT operation			
Test compensator relief valve s	ettings		
Test main relief valve settings			
Test (inport) rudder swing chec	ks		
Test (inport) blocking valve			
Test auxiliary emergency steeri	ng pump		
Test manual emergency steering system			
Inspect ram for scoring			
Test steering casualty alarm			
Test pump remote operation and	d transfer of controls		
to pilot house			
Test for static rudder split (pilo	t house in control)		
Test for indicator error (pilot ho	ouse in control)		

A-002/105-11	EMERGENCY/SHIP'S SERVI DIESEL GENERATORS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Engine Sump Level		
Inspect Turbocharger Sump Level		
Inspect Start Air Lubricator Oil Level		
Inspect Governor Oil Level		
Inspect Lube Oil Sample		
Inspect J/W Expansion Tank Level		
Inspect "Do not open access" and		
Expansion Tank warning "Poison" are		
posted		
Inspect/test fuel valve trip		
Inspect Relief Valves		
Inspect Flange Shielding		
Inspect For Exhaust Leaks		
Inspect Filters, Strainers		
Inspect Governor and Fuel Linkage for		
Binding		
Inspect J/W Standby Pump		
Test Blow In Damper		
Test pre-lube system operation		
Test Jacket Water High Temp Alarm		
Test Lube Oil Filter High DP Alarm		
Test low lube oil pressure alarm		
Test Remote Shut Down		
Test Local Shut Down		
Test Barring Device Interlock		
Test Engine Blow Down		
Test Local Pneumatic start		
Test dead bus auto start		
Test Overspeed Trip		
Test 80% load for 15 minutes		
Inspect for fuel/lube oil leaks		
Inspect pyrometer operation		
Inspect manometer		
Inspect sea water cooling pump		
Test high water/generator bearing temp		
alarm		

5512 / 5513 / 5515	LOW and MEDIU	M PRESSURE A	IR SYSTEM
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS	S Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instruc	tions are posted		
Inspect compressor oil level and	d oil samples		
Test compressor pressures and	temperatures		
Test compressor capacity contr	ol system		
Inspect compressor belt conditi			
Test compressor auto control ar	nd safety switches		
 a. Operational control switch 	ches (115/120/125)		
b. Low oil pressure			
c. High discharge pressure			
d. High air and water temp			
Inspect all relief valve testing is	s within periodicity		
Inspect location of intake/vent	11 1		
Inspect receiver flask certification	ion		
Test priority valve operation			
Inspect sea water cooling system	m		
Inspect 50/50 mixture of ethyle	ne glycol		
Test type I and type II dehydrat	tor operation		
a. Gauge calibration			
b. Tower operation			
c. Purge air pressure			
d. Automatic drain operation			
e. Dew point			
f. Inspect PMS and Tech N	Manual support		

5511 / 5515	HIGH PRES	SURE AIR SYS	TEM
Component/Sub-	Component	Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual and EO	SS Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instr	uctions are posted		
Inspect compressor oil level a			
Test compressor auto control	and safety switches		
a. Start / Stop switch			
b. Low oil pressure switch	ch		
 c. Jacket water temp swit 	tch		
d. Compressor temp/pres	sure monitor operation		
Inspect compressor pressures	and temperatures		
Inspect compressor drive belt	condition		
Inspect condensate monitorin	g/drain system		
Inspect all flex hoses are prop			
Inspect all relief valve testing	is within periodicity		
Inspect HP air flask certificat	ion		
Inspect sea water cooling sys			
Inspect air intake/ventilation			
Inspect all HP/LP air reducin	g stations		
Inspect fresh water pump bel	ts		
Inspect capacity			
Inspect oil wipers			
Inspect pressure regulator val	ve		
Inspect seals for oil leaks			
Inspect 50/50 mixture of ethy	lene glycol		

5210	FIRE PUMPS (ELECTRIC and	STEAM)
Component/Sub-C	omponent	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOS	S Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Inspect relief valves are within	periodicity		
Test remote start/stop functions	3		
Test local start/stop functions			
Inspect pump operation/design	discharge pressure,		
unusual noise, bearing temps, e	etc.		
Test the over speed trip (STEA	M)		
Test the speed limiting governo	or (STEAM)		
Test the turbine auxiliary lube			
automatic start switch operation			
Inspect lube oil filter indication	s and oil level		
(STEAM)			
Test combination exhaust and i	\ /		
Inspect the packing and mechan	nical seal leakage		
Inspect for ferrous fasteners			
Inspect the resilient mounts			
Inspect condition of expansion	joints		
Inspect all flex hoses are prope	rly tested/labeled		
Inspect piping lagging			
Inspect grounding straps			
Test remote operated suction/d	ischarge valves		
Inspect the suction strainer			

5240	SEAWATER SERVICE PUMPS		MPS
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS	S Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Test remote start/stop functions	3		
Test local start/stop functions			
Inspect pump operation/design discharge pressure,			
unusual noise, bearing temps, etc.			
Inspect packing and mechanical seal leakage			
Inspect for ferrous fasteners			
Inspect foundation and resilient	t mounts		
Inspect condition of expansion	joints		
Inspect all flex hoses are proper	rly tested/labeled		
Inspect piping lagging			
Inspect grounding straps			
Test remote operated suction/discharge valves			
Inspect the suction strainer	·	-	
Test the firemain to seawater re	educing station		
operation, condition and relief	valve test periodicity		

5140	AIR CONDITIONING PLANTS		
Component/Sub-Component		Proposed	Accepted
		Procedure	Procedure
Inspect EPA certifications			
Inspect Tech Manual and EOSS Support			
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instructions are posted			
Inspect compressor oil level a	and oil samples	•	·

Inspect warning at entrance (Freon usage) posted	
Inspect Refrigerant logs	
Test halocarbon monitor operation	
Test capacity control system operation	
Test calibration of safety shutdowns/alarms	
a. HP/LP pressure switches	
b. C/W, S/W flow/press/temp switches	
c. Low refrigerant temp switch	
d. Low oil pressure switch	
Inspect moisture indicators	
Test compressor operation (parameters, suct/disch	
valves)	
Test for leaks (oil/freon/water)	
Inspect chilled water pump	
a. suction valve	
b. discharge valve	
c. mechanical seal	
Inspect chilled water expansion tank	
a. Proper operating level	
b. Filling pipe air gap	
c. Relief valves and vacuum breakers	
d. Hose disconnects and warning sign	
Test PPU	
Inspect recovery unit (Inventory Item)	
Inspect for available vacuum pump	
Inspect sea water system	
a. Pump operation	
b. Zincs and nylon tube inserts present	
c. Condenser header condition	
d. Seawater Regulating valve	
Inspect motor controller	
Inspect coupling guard	
Inspect resilient mounts	
Inspect flex hoses	

AUXILIARIES (AX) UNDERWAY DEMO PHASE

5811	ANCHOR WINDLASS DROP AND RETRIEVAL DEMONSTRATION		
Component/Sub-Con	ponent	Proposed	Accepted
		Procedure	Procedure
Test - Conduct Anchor Drop and Retrieval			
test			
- Inspect Servo/Replenishment and Main			
Relief Pressures during wildcat operation			
- Inspect Anchor drops from the	ne hawsepipe		

5600 / 5611	STEERING DEMONSTRATION		
Component/Sub-C	omponent	Proposed	Accepted
		Procedure	Procedure
Inspect proper fluid levels			
Inspect correct Servo/Replenish	nment pressures		
Test - Demonstrate timed rudder swing checks/			
blocking valve test Ahead (as per provided			
procedure)			
Test - Demonstrate timed rudder swing checks/			
blocking valve test Astern (as per provided			
procedure)			
Inspect for dynamic rudder spli	t from helm indicator		

5331	WATER HEATERS		
Component/Sub-	-Component	Proposed Procedure	Accepted Procedure
	99.9	Frocedure	riocedule
Inspect Tech Manual and EO	SS Support		
Inspect PMS Support			
Inspect list of heaters onboard	d and spaces hot water		
services (berthing/laundry/galley)			
Inspect gauge calibration			
Inspect outlet temp at heater (verify operation)			
Inspect relief valve test data			
Inspect relief valve drain piping			
Inspect cold water inlet pipe for check valve			_
Test high temp switch setting			

Test high temp switch warning light	
Inspect lagging condition	
Inspect for steam / water leaks	
Inspect Temp Reg Valve for locking device	
Inspect heater foundation	
Test water temp at basin/spigot	

5311	WATER PRODUC	CTION DEMON	STRATION -
	FLAS	SH TYPE EVAP	S
Component/Sub-Co	mponent	Proposed	Accepted
		Procedure	Procedure
Inspect PMS and Tech Manual s	upport		
Inspect gauge calibration			
Test flow meter			
Inspect evaporator shell (sight gl	lasses, diffuser cap		
and scale buildup)			
Test salinity dump valves			
Test interlock device between po	otable water and feed		
water valves			
Inspect feed pump (labeled, pack	king gland,		
foundation, seal / gland cavity)			
Inspect brine pump (labeled, packing gland,			
foundation, seal / gland cavity)			
Inspect distillate pump (labeled,	packing gland,		
foundation, seal / gland cavity)			
Inspect brine pump (labeled, pac	king gland,		
foundation, seal / gland cavity)			
Inspect heater drain pump (label	ed, packing gland,		
foundation, seal / gland cavity)			
Inspect flexible hose condition and test tag			
Inspect feedwater strainer (found			
Inspect pipe labeling and lagging			
Test – Demonstrate 80% water p			
during the 4 Hour Water Produc	tion Demonstration		

	Proposed	Accepted
		riccopica
I	Procedure	Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect posted operating/safety instructions at each		
station		
Inspect posted lubrication chart at top station		
Inspect trunk bi-parting doors		
Inspect machinery access cover bolts & nuts		
Inspect machinery oil level		
Inspect hoist machinery mounting hardware		
Inspect hoist drum		
Inspect hoist wire rope and end fittings		
Test slack rope device and limit switch		
Test the hoist brake		
Test the up over travel limit switch		
Test the up deck level limit switch		
Test trunk bi-parting door limit switch		
Inspect car broken rope device		
Inspect car bi-parting door assembly		
Inspect car for missing components		
Test lower level trunk bi-parting doors and limit		
switch		
Test down over travel limit switch		
Test down level limit switch		
Inspect trunk buffer springs		
Test E-call and sound powered phone system when		
installed		
Inspect clean out cover mounting hardware		
Inspect motor controller for loose leads, posted		
placards, grounds and correct fuses		
Inspect dumbwaiter trunk for preservation and		
cleanliness		
Inspect guide rails		
Test each control station E-stop button		

8543	8543 PAG		CKAGE CONVEYOR	
Component/Sub-Compone	Component/Sub-Component		Accepted	
		Procedure	Procedure	
Inspect Tech Manual and EOSS Suppo	rt			
Inspect PMS Support				
Inspect posted operating/safety instruct	tions (two man			
rule/ do not ride) at each station				
Inspect posted lubrication chart at top s	station			
Test for audible warning when starting	conveyor			
Inspect that all station doors are locked				
Inspect that all station controllers are lo	ocked			
Test door interlock system				
Inspect load/unloader at each station				
Test door cannot close when loader/un	loader is in			
horizontal or 30 deg inclined position				
Test loader/unloader down interlock sv	vitch at each			
station below upper most level				
Test jam limit switch at each station				
Inspect safety shields are properly insta	ılled			
Test up-over travel switch/device opera	ation			
Test clean out door interlock switch if	applicable			
Test down overtravel device and switch	ı			
Test indexing feature	Test indexing feature			
Test E-stop and run/stop buttons at all	stations			
Inspect proper florescent lighting at each	ch station			
Inspect trunk shielding and mounting h	ardware			
Inspect trunk guide rails				
Inspect conveyor trunk for preservation	n/cleanliness			
Inspect all carrier trays are installed and	d tight			
Test all station growlers and phone circ	cuits are			
functional and headsets are present				
Inspect conveyor has been load tested v	within the last			
five years to include weight test data				
Inspect speed reducer is filled to proper level with oil				
Inspect drive, driven and carrier chains are properly				
tensioned				
Test bite panel for correct components				
operation				
*	Inspect motor controller for loose leads, posted			
placards, grounds and correct fuses				
Inspect drive machinery for missing/loo	ose			
components				

5161	5161 REFRIG		ANTS
Components/Sub-Con	nponents	Proposed Procedure	Accepted Procedure
Inspect EPA certifications			
Inspect Tech Manual and EOSS S	Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instruction	ons are posted		
Inspect compressor oil level and	oil samples		
Inspect warning at entrance (Free	on usage) posted		
Inspect Refrigerant logs	-		
Test halocarbon monitor opera	tion		
Test capacity control system oper	ration (vent plug)		
Test calibration of alarm / shutdo	Test calibration of alarm / shutdowns		
a. HP / LP pressure switches			
b. Sea water flow / pressure switch			
Test compressor operation (parameters,			
suction/discharge valves)			
Inspect for piping suppressors			
Inspect for leaks (oil/freon/sea wa	ater)		
Inspect refrigerant recovery syste	Inspect refrigerant recovery system/vacuum pumps		
Inspect sea water system (pump operation, zincs,			
nylon tube inserts, and condenser header)			
Test chill/freezer boxes for fan operation, lighting,			
coil condition and curtains			
Inspect ventilation (flow/location	/indicators and		
alarms			

6641			
Component/Sub-Cor	Component/Sub-Component		Accepted Procedure
Inspect deck condition			
- No standing water			
- Deck rusted / exfoliated			
- Deck drain not installed			
- Deck drain missing, not secured or inoperative	l within deck socket		
Inspect deck/bulkheads have no p	painted over rust		
Inspect lighting is operative and of			
Inspect adequate lighting present			
Inspect vent duct condition	т врисе		
- Access covers present			
- Access cover fasteners not ruste	ed/missing		
- Duct interior is clean	C		
Inspect correct vent/piping system	n labeling		
Inspect fan motor installed correct	etly (flow)		
Inspect filters are clean and can b	e easily removed		
Inspect filter DP gauge is operative			
Inspect vent heating element is operative and not deteriorated			
Inspect cooling coils are clean			
Inspect thermostatic controls are connected and operational	calibrated,		
Inspect the cooling coil drain is p	iped to the deck		
drain and is not clogged	c · ·		
Inspect the proper color coding o			
Inspect that all hand wheels are present			
Inspect for damaged / missing lagging			
Test the C/W or steam solenoids are operational			
Inspect for chilled water / steam 1			
Inspect for bull's eye and CCOL			
Inspect for any unauthorized stov			
Inspect for any unauthorized flan	nmables		
Inspect the filter cleaning shop			

5331	POTAB	LE WATER PU	MPS
Component/Sub-Com	ponent	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS S	upport		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Test local start/stop functions			
Inspect pump operation/design discharge pressure, unusual noise, bearing temps, etc.			
Inspect packing and mechanical seal leakage			
Inspect for ferrous fasteners			
Inspect foundation and resilient mounts			
Inspect all flex hoses are properly tested/labeled			
Inspect grounding straps			

5681		BOW THRUSTER	
Component/Sub-Cor	nponent	Proposed Procedure	Accepted Procedure
Inspect Tech Manual Support			
Inspect PMS Support			
Inspect posted operating/safet and lubrication data	y instructions		
Inspect fluid samples			
Inspect for proper HPU fluid	levels		
Inspect lube oil filters			
Inspect cable sheave and dust boot lubrication			
Test hydraulic relief valve			
Inspect right angle drive assembly			
Test bow thruster operation	Test bow thruster operation		

ELECTRICAL (EL) PRE-UNDERWAY PHASE ARS 50

3202 / 3112		SHIPS SERVICE DIESEL GENERATORS		
CC	COMPONENT/SYSTEM		PROPOSED PROCEDURE	
Test dead bus pi	Test dead bus pick-up. A-9		A-9	
Test reverse pow	er relays.		A-11R	
Test parallel ope	ration.		IAW EOP	
Test manual load	d shedding.		N/A	
400 HER	TZ DISTI	RIBUTION SYSTEM (MO	TOR GENERATORS)	
CC	OMPONE	NT/SYSTEM	PROPOSED PROCEDURE	
Test split and pa	rallel opera	ation.	IAW EOP / CSOSS	
4221	4221 TELL-TALE PANEL/NAVIGATION SIGNAL LIGHT PANE		ON SIGNAL LIGHT PANEL	
COMPONENT/SYSTEM		PROPOSED PROCEDURE		
Test Navigational Lighting Panel. R-2		R-2		
Measure insulation resistance of Navigational Lighting Panel.		S-1		
Measure insulati	on resistan	ce of Signal Light Panel.	S-1	
4331		ANNOUNCING	SYSTEMS	
COMPONENT/SYSTEM		PROPOSED PROCEDURE		
Test general, chemical, and collision alarms from all stations.		Q-1R/R-1		
Test 1MC from	Test 1MC from all stations		Q-1R/R-1	
Measure speaker	group insu	ılation resistance.	A-1	
4331	4331 ANNOUNCING SYSTEMS (CON'T)		SYSTEMS (CON'T)	

COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test MC opera	MC operation Q-2R	
Test 21MC ope	eration	Conduct operational test
4751	DEGAUSSING	SYSTEM
C	COMPONENT/SYSTEM	PROPOSED PROCEDURE
Conduct linear	ity test	Q-1
Conduct groun	d test.	M-2
Inspect degauss	sing folder.	NAVSEA TECH MANUAL
3202	3202 AUTOMATIC BUS TRANSFER EQUIPMENT	
COMPONENT/SYSTEM PROPOSED PROCEDURE		PROPOSED PROCEDURE
Test Engineeri	ng ABT's.	Q-1R
Test all remain	ing ABT's. (Day 2)	S-1R
4371	REVERSE OSM	OSIS UNIT
C	COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test dump valv	ve operation	S-2
Test alarm setti	Test alarm settings S-2	
4373	4373 WIND INDICATING SYSTEM	
COMPONENT/SYSTEM PROPOSED PROCEDURE		PROPOSED PROCEDURE
Test System Fo	Test System For Proper Operation R-1M	

5081	THERMAL IMAGING SURVEY	
(COMPONENT/SYSTEM)		PROPOSED PROCEDURE
NOTE: Any of temperature rist or 4 star) must getting underv	nermal Imaging Throughout The Ship equipment surveyed that has a se of 40 degrees centigrade or above (3 be repaired or tagged out prior to way. The items will not be available the completed and re-shot for verification	R-1 / R-2

ELECTRICAL (EL) UNDERWAY PHASE

NOTE: Electrical Underway Checks Consist Mainly Of Space Walk-Through Throughout The Ship.

In each space inspect the following if applicable:

(INSPECT) FUSE BOXES

· · · · · · · · · · · · · · · · · · ·	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are fuses pulled from designated circuits without danger tags affixed?	NSTM 300 - 2.4.1
Are there loose or missing locking nuts or gear adrift?	NSTM 300 – 4.8.1
Are circuits properly labeled for easy identification?	GSO 305E
Are there any bent, twisted, misaligned, or broken fuse clips?	NSTM 300 4.8.1
Is the interior rusty or dirty?	NSTM 300 – 4.8.1/5.2.4
Are fuses of the correct amperage and voltage	GSO 303F
installed?	NSTM 320 – 1.7.4
Are circuits fed from one set of fuses (except battle lantern circuits) multiple?	GSO 331C
Are fuse clips phosphor-bronze instead of silver plated?	NSTM 300 – 4.8.1.2
Were door hinges broken?	5100.19 SERIES NSTM 300
Are non-silver ferruled fuses installed?	NSTM 300 - 2.5.4
Are circuits over fused?	NSTM 300 – 2.5.4
Is clearance provided to permit complete accessibility for maintenance, repair, renewal of fuses, and testing?	GS0 300D

(INSPECT) BATTLE LANTERNS

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were relay-operated lanterns installed in sufficient number?	NSTM 330 – 1.6.4.3.3.1
Are lanterns installed with suitable bracket assemblies to prevent removal of lantern?	NAVSEA 0964-000-2000 NSTM 300
Were lanterns inoperative?	NSTM 330 – 3.6.2
Were test switches and relay frames grounded?	NSTM 330 – 2.1.8

(INSPECT) BATTLE LANTERNS (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were lanterns located in explosion proof enclosures (prohibit)?	NSTM 330 – 1.6.4.3.2.2
Were NEALS lanterns installed and were they charged (red indicator)?	NSTM 330 – 1.6.4.3.2
Were relay operated lanterns fused?	NSTM 330 – 1.6.4.3.3.3
(INSPECT / TEST) SHORE POV	WER SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is shore power being properly rigged?	NSTM 320-2.2.7
Did shore power shunt trip interlocks trip its	IAW PMS
associated breakers when tested?	IAW EOSS
	GSO 320D
Was shore power system cabling between the	SPRU
receptacles and the ship's switchboard insulation	NSTM 300/320
resistance within EOSS or PMS Limits	
Were shore power indicating lights operative, white in color, and all screws installed?	NSTM 320 – 2.2.9
Were warning signs posted?	GSO 070H
Was there pigtail stowage installed?	GSO 320D
Does the shore power system meet the current	GSO 320D
standards:	
 Have a Viking Connector System 	
 Have AQB-LF400 Amp Circuit Breaker 	
with shunt trip	
- Have a phase sequencing and phase	
orientation devices.	
- Have installed ammeter and selector switch	
to monitor total shore power current.	

Was the installed Cathodic Protection System operative and adjusted Were the rudder grounding straps made of 1-1/2 inch wide braided copper and brazed to the rudder stock and the hull? Has the system been turned off greater than 15 days? Was brush rigging correctly installed? Were shaft grounding brushes correctly installed? Did shaft grounding brushes exhibit full contact with the slip ring? (INSPECT / TEST) ALARM S COMPONENT/SYSTEM Test alarm switchboards and panels. Were any alarm and warning systems inoperative or missing parts? (INSPECT) ORDER/INDICATING/MET COMPONENT/SYSTEM	
wide braided copper and brazed to the rudder stock and the hull? Has the system been turned off greater than 15 days? Was brush rigging correctly installed? Were shaft grounding brushes correctly installed? Did shaft grounding brushes exhibit full contact with the slip ring? (INSPECT / TEST) ALARM S COMPONENT/SYSTEM Test alarm switchboards and panels. Were any alarm and warning systems inoperative or missing parts? (INSPECT) ORDER/INDICATING/MET COMPONENT/SYSTEM	GSO 633C GSO 633G NSTM 633- 3.3.2.6 NSTM 633 ICCP Tech Manual NSTM 633 – 3.3.2.6 ICCP TECH MANUAL YSTEMS PROPOSED PROCEDURE 4351/Q-2
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(INSPECT / TEST) ALARM S COMPONENT/SYSTEM Test alarm switchboards and panels. Were any alarm and warning systems inoperative or missing parts? (INSPECT) ORDER/INDICATING/MET COMPONENT/SYSTEM	YSTEMS PROPOSED PROCEDURE 4351/Q-2
COMPONENT/SYSTEM Test alarm switchboards and panels. Were any alarm and warning systems inoperative or missing parts? (INSPECT) ORDER/INDICATING/MET COMPONENT/SYSTEM	PROPOSED PROCEDURE 4351/Q-2
Test alarm switchboards and panels. Were any alarm and warning systems inoperative or missing parts? (INSPECT) ORDER/INDICATING/MET COMPONENT/SYSTEM	4351/Q-2
Were any alarm and warning systems inoperative or missing parts? (INSPECT) ORDER/INDICATING/MET COMPONENT/SYSTEM	
(INSPECT) ORDER/INDICATING/MET COMPONENT/SYSTEM	GSO 433J
COMPONENT/SYSTEM	
	TERING SYSTEMS
	PROPOSED PROCEDURE
Were Tank Level Indicators (TLI's) out of calibration or inoperative?	GSO 437 E
Were valve position indicator circuits misadjusted or inoperative?	GSO 430H
Were there missing or inoperative salinity cells?	GSO 531B
MOTOR COMPONE	IAW PMS
MOTOR CONTROLLE	AKS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were interiors dirty, rusty, deteriorated, or contained gear adrift?	NSTM 302-3.3.2 GSO 320F
Were wiring diagrams, schematics or overload heater	NSTM 302-3.3.1

MOTOR CONTROLLERS (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Was controller electrical wiring properly banded?	ELECT PLT. INST. STD METHODS/GSO 302F	
Were Start, Stop, "Emergency Run" or Reset buttons seized, missing or inoperative?	3001/S-1/18M-1	
Were rubber boots cracked, torn or missing?	NSTM 300-3.2.2 3001/S-1/18M-1	
Were overload relay heaters properly sized and adjusted to provide adequate protection for the motor?	NSTM 302-3.3.2 GSO 302G	
Were switches protected against inadvertent activation?	GSO 070H	
Were controllers with multiple power sources properly labeled?	GSO 305C	
Were motor foundations properly preserved?	GSO 631J	
Were controllers and remote operating stations properly labeled?	GSO 305C	
Is clearance provided to permit complete accessibility for operation, maintenance, repair, renewal of fuses, and testing?	GSO 300D	
WORKBENCHES		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
- Does the workbench conform to standards set forth in NSTM 300 APP H? (Insulation, ground straps, disconnect switches, labeling, ground connections, etc)	NSTM 300 GSO 320E GSO 665 GSO 650	
(INSPECT) ELECTRICAL	SAFETY	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were flat irons a high-grade commercial type with a three pronged cord?	NSTM 300-2.7.3.6 GSO 640G	

W I	CSO (40C
Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole?	GSO 640G
Ensure irons are not hardwired.	
(INSPECT) ELECTRICAL SAFE	ETY (CON'T)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Have shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor?	NAVELEX 0101, 110A FIG 1- 3 IAW PMS
Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord?	NSTM 300-2.7.3.3 IAW PMS
Were Hospital grade plugs used on portable equipment?	NSTM 300-2.7.3.2.8
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4.3.3
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2.2.4 NSTM 330-2.2.9
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2.1.4 NSTM 330-2.2.6
Did diesel module room have adequate lighting?	GSO 331B GSO 332E
Were spray-tight fixtures adequately protected against water intrusion?	
Was bunk lighting cable hanging, or not routed through the inside of bunk stanchions?	NAVSEA 0964-000-2000
(INSPECT) CABLIN	G
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was PVC cabling installed (new construction only)?	GSO 304D
Were dead-ended cables properly identified/terminated?	NSTM 300-4.6.7 GSO 304E NSTM 300-4.6.9 DOD-STD-2003-1
Were useless or improperly installed cables removed?	NSTM 300-4.6.7.1 GSO 304E
Was cabling properly supported, routed or were nylon	GSO 304E

wire ties being utilized?	

(INSPECT) CABLING (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cables pulling out of equipment?	GSO 331E
Were cables improperly spliced?	GSO 304E NSTM 300-4.6.8
	DOD-STD-2003-1
Were cables protected against being handholds or being stepped on?	GSO 304E
Was cabling run through beams without the use of chaffing rings?	NSTM 300 TABLE 300-4-4 GSO 304E
Was cabling running through metal partitions equipped with grommets?	GSO 304E NSTM 320-1.6.11
Were cable stuffing tubes properly assembled?	NSTM 300-4.6.10.1 NSTM 300 TABLE 300-4-4 NSTM 320-1.6.11
XXI II II	GSO 304E
Were multiple cables running through one stuffing tube?	GSO 304E NSTM 300 TAB. 300-4-4
Were multi-cable penetrators installed in Flammable Liquid Storerooms?	GSO 304E MIL-STD-1310
(INSPECT) BUS TRANSFER E	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
 Were ABT's installed for the following: Emergency Lighting. IC Switchboard and panels. Steering power panel. Pumps associated with the main and auxiliary machinery plant having Low Voltage Release (LVR) control. Fire pumps. Fire extinguishing auxiliaries and controls. 	NSTM 320-1.3.2 GSO 320D
Did ASCO ABT transfer switches have an electrical charge on the metal screw on the manual operator?	NAVSEA FSC SER 03E2/03E2-234
Was the sliding interlock on manual bus transfer switches effective at preventing both breakers from	NSTM 300-4.8.4.2

being closed at the same time?	
Are feeder circuit breaker megger holes blanked off?	NAVSEA 230319ZNOV 98
Were Normal/Alternate source indicating lights operative?	NSTM 320-2.2.6.4
(INSPECT) SHIP TELEPHON	E SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the system unreliable due to unresolved software or hardware deficiencies?	NSTM 430-3 GSO 432
Test battery back-up for telephone system	NSTM 313-2.5 GSO 313J
(INSPECT) MOTOR	u kS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were motor foundations properly preserved?	NSTM 300- 5.4.3.10 GSO 631J
Was resilient mounted electrical equipment groundedto the ships hull through ground straps?	NSTM 300- 2.2.1
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244
Were coupling, belt, or chain guards effective?	GSO 320E
POWER PANELS	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Do labels specify the proper information?	GSO 305E
Do Breaker ratings match the circuit label current	GBO 303E
rating?	GSO 305E
rating? Are multi-phase circuits missing breaker connecting handles?	
Are multi-phase circuits missing breaker connecting	GSO 305E
Are multi-phase circuits missing breaker connecting handles? Were power panels located inside galley spaces? Is clearance provided to permit complete	GSO 305E GSO 324C
Are multi-phase circuits missing breaker connecting handles? Were power panels located inside galley spaces? Is clearance provided to permit complete	GSO 305E GSO 324C GSO 320E GSO 300D
handles? Were power panels located inside galley spaces? Is clearance provided to permit complete accessibility?	GSO 305E GSO 324C GSO 320E GSO 300D
Are multi-phase circuits missing breaker connecting handles? Were power panels located inside galley spaces? Is clearance provided to permit complete accessibility? CASUALTY POWER CA	GSO 305E GSO 324C GSO 320E GSO 300D ABLES PROPOSED PROCEDURE GSO 304E
Are multi-phase circuits missing breaker connecting handles? Were power panels located inside galley spaces? Is clearance provided to permit complete accessibility? CASUALTY POWER CASU	GSO 305E GSO 324C GSO 320E GSO 300D BLES PROPOSED PROCEDURE GSO 304E NSTM 320-3.4.1
Are multi-phase circuits missing breaker connecting handles? Were power panels located inside galley spaces? Is clearance provided to permit complete accessibility? CASUALTY POWER CASU	GSO 305E GSO 324C GSO 320E GSO 300D ABLES PROPOSED PROCEDURE GSO 304E

humidity?	
Were normally energized power terminals labeled?	NSTM 320-1-2-8-2 GSO 320G
Were racks properly identified as to number/length of cables assigned to the rack?	
CASUALTY POWER CABLE	S (CON'T)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is there a label attached at the end of the cable to	GSO 305F
indicate the length and stowage rack number?	DOD-STD-2003
Are cable leads properly identified for phase identification?	NSTM 320-1.2.8.2
Were cable ferrules missing or heavily oxidized?	NSTM 079-47.4.2.2.6
Was an improper number/length of cable installed on	NSTM 079-47.5.6.1
a cable rack?	GSO 320G
Were wrenches missing from terminals?	NSTM 079-47.4.2.3.3
Were covers installed on power terminals?	NSTM 079-47.4.2.3.4
•	NSTM 079-47.4.2.3.6
	GSO 320G
ELECTRICAL DISTRIBUTION	EQUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was electrical distribution equipment securely	NSTM 300-4.3.3
mounted?	GSO 300D
Electrical distribution equipment have loose or missing covers?	NSTM 300-4.3.3
Were control knobs or fasteners missing from electrical equipment?	NSTM 300-4.3.3
Was electrical equipment protected from water	NSTM 300-4.4.1
intrusion?	NSTM 300-4.4.5
Is electrical properly mounted or was it suspended solely by electrical cables?	NSTM 300-4.3.3
Were 440 multipurpose outlets properly phased?	NSTM 320-1.4.1
Did Standard Navy Receptacles (SNR) and Multi-Purpose Outlets (MPO) have an interlock switch or was the switch function such that the plug	NSTM 320-1.4.1

could not be removed from an energized receptacle?	
Were electrical receptacles broken or damaged?	NSTM 300-2.7.6
Were 400HZ AC, 60HZ AC, and DC convenience	GSO 320
outlets labeled to prevent equipment being used with	
the wrong frequency?	
SOUND POWERED TELEPHON	E SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were any Sound Powered Circuits below 50,000 ohms resistance to ground?	GSO 432I
Were Sound Powered Call Signal Stations (growlers)	NSTM 430
inoperative, corroded, damaged or missing parts?	1131111 430
Were Sound Powered Jackboxes improperly labeled,	NSTM 430-3.2
corroded, damaged, or missing parts?	
(INSPECT) LIGHTIN	G
COMPONENT/SYSTEM	PROPOSED
COM CIVE (INSTOLEM	PROCEDURE
Were darken ship switches operative and adjusted	DOD-HDBK-289
properly? Ship provide list of darken ship switches for	NSTM 330-3.6.5
survey.	
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2
Were spray-tight fixtures adequately protected against water intrusion?	NSTM 300-4
Did diesel module room have adequate lighting?	GSO 331B/332E
(INSPECT) BATTERY LO	
COMPONENT/SYSTEM	PROPOSED
COM ONDATIONEM	PROCEDURE
Was a Battery Log maintained?	NSTM 313-2
	GSO 313F
Is there an electrical interlock between exhaust	5100.19C C0904
ventilation and battery charger?	NSTM 313
Test ventilation interlocks	3131/S-2
Are Alkaline and Lead Acid Batteries being serviced in	5100.19 C0904
the same facility?	GSOF

Is each locker provided with:	5100.19
- Rubber Gloves and Aprons.	GSO 313F
- Goggles.	NSTM 313
- Two battery fillers.	
- Two battery test sets.	
- One soda water container.	
Does the locker contain an eye wash station and a	NSTM 313-2
deluge shower?	

(THOREGE) DATEMENTAL OCCUPRO (CONTENT)			
(INSPECT) BATTERY LOCKER	RS (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE		
Are battery storage racks greater than 12 inches between tiers?	GSO 313F		
Were battery hold-down clamps provided?	GSO 313F		
Are Acids stored in appropriate protective containers?	GSO 313F		
Are battery charger plugs and jacks marked NEG. and POS.?	GSO 313F		
(INSPECT) MISCELLANEOUS E	QUIPMENT		
COMPONENT/SYSTEM	PROPOSED PROCEDURE		
Is permanently mounted electrical equipment hardwired to the ships electrical system?	NSTM 330-1		
Is hardwired electrical equipment permanently mounted?	NSTM 330-1		
Was more than 1 multi-purpose power strip connected to one isolated receptacle circuit?	NSTM 300-2.7		
Is electrical equipment mounted on non-conducted surfaces properly grounded?	3000 / A-5		
Were Surge Protectors of the approved type?	3000 / A-4R		
Are portable electric device power cords properly tinned?	3000 / Q-1R		
Are permanent-type safety precautions, operating instructions, high voltage warning signs, and resuscitation instructions installed where required?	NSTM -H.5, I-2		
Did electrical connection boxes have knockouts pushed in leaving access holes In the side?	NSTM 300-2.		

Are non-watertight connection boxes being used in	
engineering spaces?	
Was rubber matting oil soaked, cracked, punctured,	GSO 634B
perforated or had imbedded metal or conductive	
particles?	

(INSPECT) MISCELLANEOUS EQUIPMENT (CON'T)			
COMPONENT/SYSTEM	PROPOSED PROCEDURE		
Did dress ship lights have broken, missing, or incorrect guards?	NSTM 330-1 3000/ R2		
Were dress ship light receptacles labeled "Dress Ship Light Streamers. Not to be used for any other purpose"?			
	NSTM 330-1-		
Were panel switches controlling circuits that are de- energized during darkened ship operation marked DARKENED SHIP?			
	NSTM 330-1		
Had the float charge on the UPS batteries been reduced from 135vdc to 129vdc?			
	IAW PMS		
Was UPS electronic cabinet bottom sealed to prevent water of oil entry from lower level engine room?	GS0 300D/324D NSTM 300-4		

ELECTRICAL (EL) POST-UNDERWAY ARS 50 OPEN AND INSPECT AS REQUIRED BY THE INSPECTION COMPONENT/SYSTEM PROPOSED PROCEDURE

MAIN PROPULSION PRE-UNDERWAY PHASE ARS 50

MAIN ENGINE

2331

Proposed Accepted Component/Sub-Component Procedure Procedure EOP MEDA Inspect Engine Sump Level Inspect Calibration and Indicators CRL 2513 s-1 step a Test Blow In Damper Inspect Filters, Gaskets, and Frames 2513/002 M-1 Inspect Governor Lube Oil Level EOP MEDA Inspect Lube Oil Sample NSTM 262 Inspect J/W Expansion Tank Level EOP MEDA 5000/005 Inspect Relief Valves Inspect for Exhaust Leaks NSTM 233 Inspect Flange Shields NSTM 505 Inspect Zinc Anodes 2331/003 M-1 Test Prelube Pump EOP CMDS Test Jacket Water High Temp Alarm 2331 A 5 step f Test Remote Shutdown 2331 S-2 MEDA Test Local Shutdown MEDA Test Local Pneumatic Start 2331 A-1 step l-n Test Low Lube Oil Alarm Test Low Lube oil Shutdown (High/Low speed) 2331 S-2 step 1d

Test Overspeed Trip	2331/004 24M-2R	
Inspect Governor and Fuel Linkage for Binding	MEDA	

2411	REDUCTION GEARS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect Sump Lev	rel and Lube Oil Condition	R2000/R-1	
Inspect Gear Teet Casing Interior	h, Lube Oil Spray Pattern,	2411/012 A-1	
Inspect Oil Flow in SFI's		NSTM 241	
Inspect Temperature Gauges		JFMM V4	
Inspect Casing Exterior		NSTM 241	
Inspect Vent Fog Precipitator		S9514BRMMA01 0	
Test Shaft Turning Gear and Locking Device		MRJG	
Test MRG low LO	O press starting interlock	2331 S-3	

2411	REDUCTION GEARS			
Component/Sub-Component		Proposed Procedure	Accepted Procedure	
Test LOSP auto sta	art	2411 Q-5 step h		
Test Clutch Low Pressure Alarms		EOP PDD		
Test MRG Low LO alarm		2411 Q-5		
Inspect Security Devices		EDORM		
Inspect Piping Systems		EDORM		
Inspect Flange Shielding		NSTM 505		
Test Brake Low Pressure Alarm		EOP PDD		
LINE SHAFT BEARINGS				

Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Seals		
Inspect Lubricator		

2430	STERN TUBE SEALS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Gauges		CRL	
Cooling Water Piping		NSTM 505	
Cooling Water Strainer/Filter		STCW	
Test Cooling Wate	r Low Flow Alarm	STCW	

2430	STERN TUBE SEALS			
Component/Sub-Component		Proposed Procedure	Accepted Procedure	
LP Piping/Hoses/Fittings		NSTM 555		
CO2/N2 Piping/Fitting		NSTM 505		
Test Inflatable Seal		2400 S-1		
Emergency Flax Packing Kit		S9243BGMMA 010SYN4		
Backing Ring		S9243BGMMA 010SYN4		

2451	CRP/CPP		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect HOPM JFMM V4; NSTM 505; NSTM 556			
		2451/004 18M-1	
Inspect Piping		NSTM 505	

Inspect Gages	CRL
Inspect Flange Shields	NSTM 505
Inspect Sump Level	EOP PHOS
Inspect Oil Condition	2451/004 S-1R
Verify Calibration between Consoles and OD box	CPPGT
Test Slew Rate, Command Pitch Mismatch Alarm	EOP CPPT step 1-3
Test Emergency Pitch Pump	EOP MSEAH 1- 19
Test Electric CRP Pump	EOP PHOS
Inspect Mechanical Seal	NSTM 503

	LUBE OIL SYSTEMS			
Compor	nent/Sub-Component		oposed ocedure	Accepted Procedure
- Test Purifier oper	ration	ЕО	P PTLO	
- Inspect Heater		ЕО	P PTLO	
- Inspect Purifier		ЕО	P PTLO	
Test /Inspect Lube Enclosures	Oil Strainer Baskets and	ЕО	P LOFS	

2610	FUEL OIL SYSTEMS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
- Test Purifier operation		EOP FOPO	
- Test Pump, Fuel Oil		EOP STFO	
- Inspect Purifier		EOP STFO	
Test Fuel Oil Service Tanks for Water		NSTM 541	
Test Service Tank Suction Valves		5000/005	
Test Service Tank Recirc Valves		5000/005	
Test Quick Closing Valves		5000/005	

2521	CONTROLS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Test EOT Indicator		EOP EOT step 4	
Test EOCC Alarms and Indicators		EOP CTAI	
Test Eng LOSP Alarms and Indicators		EOP CTAI	
Test Propeller LOSP Alarms and Indicators		EOP CTAI	
Inspect Bell Logger		CA (33)	
Test EOT Wrong Direction Alarm		EOP EOT step 8	
Test Console Self-Checks		EOP CTAI	
Inspect Torsionometer and verify calibration data		2400/006 R-1	

1130	HULL STRUCTURE		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect Bilges/Angle Irons		NSTM 100	
Inspect Deck Plates		MLOC	
Inspect Equipment Foundations and resilient mounts		NSTM 100	
Inspect Paint and Preservation		6300 S-1	
Inspect Pipe Brackets/Hangers		NSTM 505	
Inspect Lighting		NSTM 303	

AUXILIARY BOILER CHECKS		
Low Water Cut off	5171 Q 2R step b	
Test High Steam Pressure Cut off	5171 18 M 1R Step a	
Fuel Oil Quick Trips	5000/05 S-2	

Flame Failure	5171 Q 1R Step b	

MAIN PROPULSION UNDERWAY PHASE ARS 50

	DEMONSTRATIONS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Demonstrate Full I	Power ahead (1 hour)	PMS/EOSS/POG/ 9094.1B	
Demonstrate Quick Reversal Astern		POG/Full Power Memo/EOSS	
Demonstrate Quick Reversal Ahead		POG/Full Power Memo/EOSS	
Demonstrate fuel oil purifier (s) operation		EOSS/PMS	
Demonstrate purifi	er (s)emergency stop capability	EOSS/PMS/Tech manual	